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# CLASS 267 SPRING DEVICES

## SECTION I - CLASS DEFINTION

This class includes vehicle-springs, elastic extension devices, reciprocating-bed-cushioning devices, and miscellaneous spring structures which are not peculiar to any particular art.

## SECTION II - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

5, Beds, subclasses 246+ for a spring device disclosed as for a bed, subclasses 655.7+ for a spring containing support for a user"s body or part thereof, and subclasses 716+ for a mattress comprising an innerspring core.

29, Metal Working, subclasses 896.9+ for a miscellaneous or combined process of manufacturing a spring element made of metal.

72, Metal Deforming, appropriate subclasses for a process or apparatus for forming a metal spring wherein the metal is deformed during the process.

74, Machine Element or Mechanism, subclass 501.5 for constant tension sustaining devices for flexible cable operators.

92, Expansible Chamber Devices, appropriate subclasses. See the SEARCH CLASS note to Class 267 in the class definition of Class 92, for the line between an expansible chamber device for Class 92, and a fluid spring device for Class 267.

100, Presses, subclass 265 for reciprocating platen presses having a spring actuator, and not elsewhere provided for.

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, appropriate subclasses for a method of making a leaf spring involving the chemical bonding of plural leaves.

264, Plastic and Nonmetallic Article Shaping or Treating: Processes, appropriate subclasses for a process of making a nonmetallic spring by shaping.

428, Stock Material or Miscellaneous Articles, subclasses 544+ for stock materials, e.g., of indefinite length, which are all metal or have adjacent metal components, especially subclass 591 for such stock material having a feature for affording relative movement between components thereof.

## SECTION III - GLOSSARY

The following terms are referenced by some of the definitions of subclasses 2+.

### COIL SPRING

an element in the form of a spiral and which exhibits resilient characteristic when distorted from

its original shape. May be in the form of a helix, a volute spiral or flat spiral.

**HELICAL COIL SPRING**

an element in the form of a serial lying on the surface of a cylinder and which exhibits resilient characteristics when distorted from its original shape.

**LEAF SPRING**

an element comprising a plate or bar or a plurality of superposed plates or bars and which exhibits resilient characteristics when a portion is deflected transversely of length of the element

## SUBCLASSES

1.5 **PACKING EXPANDER OR CONSTRICTOR**
This subclass is indented under the class definition. Structure adapted to bias a packing element in a radial direction.

2 **VEHICLE**
This subclass is indented under the class definition. Spring devices under the class definition which includes a spring element to cushion relative movement between parts of a vehicle and which do not involve in their application to such use any substantial modification of the vehicle structure.

1. Note. Generally, those patents which have no disclosure for vehicular use have not been cross-referenced to this and indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

113, through 182, appropriate subclass for a spring device of the nonsupport type useful in vehicles, or for supporting supplementary vehicle equipment (e.g., seat, motor, transmission).

SEE OR SEARCH CLASS:

180, Motor Vehicles, appropriate subclasses for motor vehicles in which there is a special relationship between a spring element and parts peculiar to motor-vehicle construction.

244, Aeronautics, subclass 104 for spring devices disclosed and claimed in combination with parts peculiar to airplane construction.

280, Land Vehicles, subclasses 5.5+ for a general utility land vehicle including an active suspension responsive to a force encountered while the vehicle is in surface traversing motion which usually involves a spring device or element; subclasses 6.15+ for a general utility land vehicle including means, interposed between a vehicle body, chassis, or frame and running gear thereof, for altering height or levelness of the vehicle body, chassis, or frame which may or may not involve a spring device or element; subclass 79 for a general utility wheeled land vehicle provided with springs between the wheel or wheels and the load-support, noting the search notes provided therein; subclasses 124.1+ for a general utility wheeled land vehicle running gear suspension arrangement; or subclasses 275+ or 283+ for a general utility occupant propelled-type land vehicle including yielding framework or running gear which may or may not involve a spring device or element (it is noted that in accordance with the (2) Note of Class 280, subclass 200, motorcycle frames and running gear, without features causing classification in Class 180, Motor Vehicles, are included in these subclasses). Patents classified in this class (Class 267) as originals may include vehicle parts directly related to vehicle suspension (e.g., fluid damper, upper or lower control arm) and vehicle

vehicle suspension (e.g., fluid damper, upper or lower control arm) and vehicle parts which are nominally recited as either a reference or mounting structure for the spring.

297, Chairs and Seats, subclasses 195.1+ for springs used in saddle seat construction; subclasses 285+ for springs used in chairs and seats so that a back is resiliently supported; subclass 312 for springs resiliently supporting independently movable sections of a seat bottom.

3 **Railway**
This subclass is indented under subclass 2. Spring devices especially adapted for railway rolling-stock and not classified in other subclasses of this class.

SEE OR SEARCH CLASS:

213, Railway Draft Appliances, for spring devices in which the sole specific use is disclosed as a railway draft appliance (e.g., a draft or buffing means) or in which the claim is limited to a railway draft appliance.

4 **Coil**
This subclass is indented under subclass 3. Device wherein the spring element is a coil-spring.

5 **Perambulator**
This subclass is indented under subclass 2. Spring devices especially adapted for children"s carriages.

6 **Bolster**
This subclass is indented under subclass 2. Spring devices especially adapted for vehicle-bolsters.

7 **Leaf**
This subclass is indented under subclass 6. Device wherein the spring element is a leaf-spring.

23 **Leaf, coil, and fluid pressure**
This subclass is indented under subclass 259. Device comprising a leaf- spring, a coil-spring, and a fluid-pressure spring are combined in the same structure.

24 **Leaf, fluid pressure and liquid**
This subclass is indented under subclass 259. Device comprising a leaf- spring and a fluid-pressure and liquid spring combined in the same structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

64.25. for plural compressible fluid springs combined with a fluid retarder and adapted for use in a vehicle.

25 **Leaf and torsion**
This subclass is indented under subclass 259. Device comprising a leaf-spring and a torsion-spring combined in the same structure.

26 **Torsion coil**
This subclass is indented under subclass 25. Device wherein the torsion-spring element is of the coil type.

27 **Leaf-end-connecting**
This subclass is indented under subclass 26. Device wherein the torsion-coil-spring element forms an end connection for the leaf-spring.

28 **Leaf and coil**
This subclass is indented under subclass 259. Device wherein a leaf-spring and a coil-spring are combined in the same structure.

29 **Leaf-end-connecting**
This subclass is indented under subclass 28. Device wherein the coil- spring element forms an end connection for the leaf-spring.

30 **Leaf and rubber type**
This subclass is indented under subclass 259. Device wherein a leaf-spring and a rubber type spring are combined in the same structure.

31 **Leaf and fluid pressure**
This subclass is indented under subclass 259. Device wherein a leaf-spring and a fluid-pressure spring are combined in the same structure.

32 **Leaf-end-connecting**
This subclass is indented under subclass 31. Device wherein the fluid- pressure-spring element is interposed between the end of the leaf-spring and a supporting or supported member.

33 **Coil and rubber type**
This subclass is indented under subclass 259. Device wherein a coil-spring and a rubber type spring are combined in the same structure.

34 **Coil and fluid pressure**
This subclass is indented under subclass 259. Device wherein a coil-spring and a fluid-pressure spring are combined in the same structure.

35 **Rubber type and fluid pressure**
This subclass is indented under subclass 259. Device wherein a rubber type spring and a fluid-pressure spring are combined in the same structure.